



CURRICULUM VITAE

Dr. Mrs. Sujaya Chatterjee

Abstract: A Ph.D in Chemical Engineering specialized in Petrochemicals with extensive knowledge and experience in product development, quality assurance, coordination with production and teaching & training

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Dr.(Mrs)Sujaya Bandyopadhyay(Chatterjee)

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Objective

Management position in R&D or Quality assurance/control function in a large professional enterprise in chemical industry, where I can utilize my knowledge and skill and contribute to the success of the enterprise.

Work History:

Have varied experience in Quality Control and Management, Production Management, Research & Development and skill development (both in Institute and in industry) for last 21 years.

- Product Development Manager, Asianol Lubricants Pvt Ltd (current engagement since 2018)
- Part Time Lecturer in Chemical Engineering Department of Calcutta University (2017-2018)
- Woman Scientist, Kiran-IPR-TIFAC, Department of Science of Technology (DST) (2016-2017)
- Senior Research Fellow, CSIR, Research on "Production of Biosurfactants through Biodesulfurization of Hydrotreated Diesel and Spent Engine Oil"
- Lecturer, Various Engineering Institutes from 2005 to 2010 in Kolkata while pursuing Ph.D.
- Unit Head, Chemical Domain in Scope e-knowledge Center, Chennai from 2003 to 2005
- Engineer, United One Pvt.Ltd., Chennai (Petrochemical Division), (2001-2003)
Energy Audits for breweries, fuel intensive industries, market research and customer interaction
- Engineer – Quality Control and R&D, BiccLawrie Ltd. (1999 – 2001)

Education:

- Ph.D., Chemical Engineering, Topic "Production of Biosurfactants through Biodesulfurization of Hydrotreated Diesel and Spent Engine Oil"; Jadavpur University; 2015
- MBA (with Specialization in Quality, Operation & Transport Management) Annamalai University; 2005
- B.Tech Petrochemical and Petroleum Refinery Engineering; Calcutta University; 1st Class; 1999
- B.Sc Chemistry (Hons); Calcutta University; 1st Class; 1996

Skills:

- Trained in Patent procedure & application process
- Completed certificate course for JAVA Programmers, E-Commerce and internet applications from El.net and IIT, Kharagpur

Honours and achievements:

- Got National Scholarship award in Secondary, Higher Secondary exam.
- Ranked within 20th in B.Sc. Chemistry exam in the University.
- CSIR –SRF fellowship

Research Publication:

- Published multiple papers in journals and presented papers in national & International Seminars on production techniques of biosurfactant and ULSD, related process modelling and unit performance analysis and optimization of process operation

Industrial Training & Projects

- Undergone extensive Industrial Training at IOCL, Haldia, West Bengal in
 - Fuel Oil Block
 - Lube Oil Block
 - Oil movement and storage
 - Quality Control
- **Research Project** : On Disproportionation of Xylene
- **Plant Design** : On PTA from P-Xylene
- **Equipment Design** : PTA Reactor
- **Participated in Seminars** : On detergent from Petroleum source

Personal Details

Date of Birth : 11th June, 1975

Languages Known : English, Hindi, and Bengali

Permanent Address : 138, Elias Road, Agarpara, Kolkata – 700 058

Current Address: 60 /1 A Raja Basanta Ray Road, Kolkata-700029

Hobby : Music, painting, reading, cooking, gardening, traveling

(FOR DETAILS ON WORK EXPERIENCE AND RESEARCH WORK REFER PAGES 3-6)

Detailed Work Experience

1. Product Development Manager, Asianol Lubricants Pvt Ltd (Feb 2018-till date)

Job Profile-

- Development of new products namely Esters, Transformer oil, Refrigeration oil, Lube oil, Fire resistance hydraulic oil, Speciality chemicals, oleo-chemicals and greases.
- Checking, monitoring product quality, production planning and control, vendor selection, QMS and costing.
- Sales support , supporting and educating customers ,mitigating complains, estimation for quotation, product registration with PSU and foreign countries
- Technical Documentation of ISO, OSHAS, tenders etc., conducting safety audits, internal audits
- Managing factory workforce
- Co-coordinating plant maintenance
- Participating management review meeting and project handling

2. Faculty, Calcutta University (August 2014 –February 2018)

Job Profile –

- Teaching Chemical Engineering (Separation process, mass transfer operation) and Engineering Chemistry in B.Tech course.

3. Woman Scientist, WOS-C, Kiran-IPR-TIFAC (Department of Science of Technology (DST))

Duration – April 2016 –May2017

Job Profile –

- Completed on job training on intellectual property (mostly on patents) in Patent Office(**IPO**), **Kolkata**
- Research Associate: NASI**
- Worked as Ganga research scientist as a post doctoral fellow for six months

4. Senior Research Fellow, CSIR (April 2012-August 2015)

Job Profile –

- Research on “Production of Biosurfactants through Bidesulfurization of Hydrotreated Diesel and Spent Engine Oil”, efficiently handled reactor systems and chromatographic analysis using GC, HPLC etc, guided under graduate (B.E) and post graduate (M.E) projects.

5. Asst.Registrar and Lecturer, Seacom Marine and Engineering College (Aug 2010 –March 2012)

Job Profile –

- Administration, admission, placement and training related issues, conducting GB meeting, involved in Examination cells, worked in affiliation (AICTE, ISO etc.) renewal activities. Teaching Environmental science and Chemistry in ME, CSE, EE and Marine Science Dept.

6. Lecturer, Calcutta Institute of Technology – Uluberia (February 2008 –February 2010)

Job Profile –

- Teaching Industrial, Marketing Management, Values and ethics etc. in ECE, IT, MCA, B.Pharm departments.
- Teaching Chemical Process technology, Petroleum Oil Refinery engineering and Petrochemical engineering in Chemical Engineering Department

7. Unit Head-Chemical Domain, Scope e-knowledge Center, Chennai (September 2003 to June 2005)

Job Profile –

- Being the unit head of the IP (Intellectual Property) division, I had a A team of Forty chemical engineers who were involved in back end support to a major Chemical research society in the world. The team members were involved in preparing datasheets, **data extraction, indexing, novelty finding, patent searching** and related jobs. My basic job as an unit head was supervising the overall work ,quality checking ,training ,retraining , weekly planning, fixing up weekly targets for the team leaders , final delivery and interact with the client to understand any quality issues and also planning for the future.

8. Engineer – Marketing, United One Pvt. Ltd.,Chennai (Petrochemical Division), (June 2001 to September 2003)

Job Profile –

- Energy Audits for breweries, fuel intensive industries, market research and Customer interaction.

9. Engineer – Quality Control and R&D, Bicco Lawrie Ltd. (IBP Group Company), Kolkata Under Ministry of Petroleum, (September 1999 to June 2001)

Job Profile –

- Joined as a trainee (**QC,R&D**) and worked in the Lube Oil Blending Plant. The main responsibility included developing SOP (Standard Operating Procedure), Quality check on incoming materials, testing product quality for Outgoing products, deciding on number of batches of each grade etc. Also, involved in the development of new products like transformer oil, spindle oil etc.

Paper Published in International Journal

1. Sujaya Bandyopadhyay , Ranjana Chowdhury, Chiranjib Bhattacharjee ,Supratim Pan, Simultaneous production of biosurfactant and ULSD (ultra low sulfur diesel) using *Rhodococcus* sp. in a chemostat, **Fuel**, vol-113, pp:107-112, 2013

2. Sujaya Bandyopadhyay, Ranjana Chowdhury*, Chiranjib Bhattacharjee Production of biosurfactants through biodesulfurization of spent engine oil – an Experimental study, **Green Chemistry Letters and Reviews**, 2014, Vol. 7, No. 3, 288–295

3. Sujaya Bandyopadhyay, Ranjana Chowdhury*, Chiranjib Bhattacharjee Mathematical modeling of production of bio-surfactant through bio-desulfurization of hydrotreated diesel in a fermentor, **AIP proceedings**, 2010 ,ISSN:1551-7616

4. Sujaya Bandyopadhyay, Ranjana Chowdhury*, Chiranjib Bhattacharjee Steady State Performance of a Bioreactor for Production of Near Zero Sulfur Diesel (NZSD) and Bio-surfactant, **Journal of Clean Energy Technologies**, Vol-1, No 3, May, 2013 pp: 189-193. ISSN:179-821X.

5. Sujaya Bandyopadhyay, Ranjana Chowdhury*, Chiranjib Bhattacharjee Parameter Optimization of Surface Active Properties and Quantification of Biosurfactant Produced in Continuous Stirred Tank Bioreactor during Biodesulfurization of Diesel **International Journal of Innovative Research in Advanced Engineering** (IJIRAE) ISSN: 2349-2163, Volume 1 Issue 9 pg:217(October 2014)

6. Sujaya Bandyopadhyay, Abhirup Basu, Soham Basu, Ranjana Chowdhury Optimization of Evaporative Extraction of Natural Emulsifier cum Surfactant from *Sapindus mukorossi* – Characterization and Cost Analysis, **Industrial Crops and Products**, Volume 77, Pages 920-931, December-2015

Paper presentation in national and international conferences

1. Sujaya Bandyopadhyay, Ranjana Chowdhury*, Chiranjib Bhattacharjee .Production of Bio-surfactant as a By-product of Bio-desulfurization of Hydrotreated Diesel by Aerobic Fermentation **IIChe Trivandrum ,Kerala Pollution Control Board and ISRO**

2. Sujaya Bandyopadhyay, Ranjana Chowdhury*, Chiranjib Bhattacharjee Experiments and modeling on production of biosurfactant through biodesulfurization of hydrotreated diesel. **IIT Kanpur, 13th -14th July 2010,**

3.Sujaya Bandyopadhyay, Ranjana Chowdhury*,Chiranjib Bhattacharjee Mathematical modeling of production of bio-surfactant through bio-desulphurization of hydrotreated diesel in a fermentor, **Durgapur,NIT, 28-30th October2010**, International Conference on Modelling, Optimisation and Computing (ICMOC 2010)

4. Sujaya Bandyopadhyay, Ranjana Chowdhury*,Chiranjib Bhattacharjee Experiments and Modeling of production of bio-surfactant and near zero sulfur diesel (NZSD)from hydrotreated diesel by fermentation ,**Chemcon,Annamalai University, 26-28th December 2010**

5. Sujaya Bandyopadhyay, Ranjana Chowdhury*,Chiranjib Bhattacharjee Kinetic study of production of biosurfactant and biodesulfurization of spent engine oil using *Rhodococcus sp*,**CHEMCON-2012,NIT Jalandhar,26th-30th December'2012**

6.Sujaya Bandyopadhyay , Ranjana Chowdhury*,Chiranjib Bhattacharjee Steady State Performance of a Bioreactor for Production of Near Zero Sulphur Diesel (NZSD) and Bio-surfactant, **ICFEE -2013,Rome,Italy,24th-25th February'2013**

7. Sujaya Bandyopadhyay, Ranjana Chowdhury, Chiranjib Bhattacharjee Augmentation of Production of Biosurfactant through Biocatalytic Desulfurization of Diesel in a CSTBR: Effect of Recycle, International Conference on Sustainable Chemistry and Engineering,(SusChemE-2015),**ICT Mumbai,8-9th October,2015**

8. Sujaya Bandyopadhyay, Transient behavior of bioreactor for production of biosurfactants through desulfurization of diesel and waste oil, “**World Congress and Expo on Oil, Gas and Petrochemistry**” on**26-28th November, Dubai, UAE,2015**

Paper presentation in international conference

1. Sujaya Bandyopadhyay, Ranjana Chowdhury*,S.Pan"Production of Bio-surfactant and ULSD through Bio-desulphurization of Hydrotreated Diesel in a ChemostatExperiments and Modeling"**Ixtapa-Zihuatanejo, Mexico,on14-18,June 2009.**, International Symposium on Advances in Hydroprocessing of Oil Fractions

2. Sujaya Bandyopadhyay, Ranjana Chowdhury*,Chiranjib Bhattacharjee An useful byproduct from biodesulfurization by *Rhodococcus sp*,**Bangalore University, 29th July-31st July 2010**, Inter National conference on environmental pollution, water conservation and health.

3.Sujaya Bandyopadhyay, Ranjana Chowdhury*,Chiranjib Bhattacharjee Can we produce biosurfactant through biodesulfurization of spent engine oil –An experimental study **International Symposium on Advances in Hydroprocessing of Oil Fractions (ISAHOF 2013) Acapulco, México June 9-14, 2013**

4.Dr. Ranjana Chowdhury, Sujaya Bandyopadhyay, Abhirup Basu, Soham Basu,Anwasha Kirtania, Kakoli Mukherjee, Anamika Saha, Annesha Bhattacharjee Optimisation of production of natural surfactant from soap nut (ritha) using response surface methodology (RSM),**Chemcon 2013,Institute of chemical technology,27-30Dec,2013**